1. $2^3 \times 3^4 \times 2^2 \times 3^5 =$

- A 6^{14}
- B 6^{20}
- C $2^5 \times 3^9$
- D $2^4 \times 3^{10}$

2. $\left(-\frac{2}{3}\right)^3 =$

- A $-\frac{4}{9}$
- B $-\frac{8}{27}$
- C $\frac{4}{9}$
- D $\frac{8}{27}$

3. Given that $5^n \times 5^6 = 5^{18}$, find the value of n.
Diberi bahawa $5^n \times 5^6 = 5^{18}$, cari nilai n.

- A 3
- B 6
- C 9
- D 12

4. $(0.7)^3 =$

- A 0.343
- B 0.49
- C 1.7
- D 2.1

5. $32^{-\frac{2}{5}} \div (2^{\frac{3}{2}})^4 =$

- A 2^{-8}
- B 2^{-4}
- C 2^4
- D 2^8

6. Simplify.
Permudahkan.

$$(h^5 \times k^2 \times m^8)^4$$

- A $h^9k^6m^{12}$
- B $h^2k^4m^{30}$
- C $h^{20}k^8m^{32}$
- D $h^{20}k^{16}m^{32}$

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7. $\dfrac{\sqrt{36m^4n^2} \times m\sqrt{n}}{\sqrt{2} \times \sqrt{2m^2n}} =$

- A $3n^2m$
- B $6mn$
- C $6m^3n^2$
- D $3m^2n$

8. Given $k^{-4} \times k^n = \dfrac{1}{k}$, find the value of n.

Diberi $k^{-4} \times k^n = \dfrac{1}{k}$, *cari nilai* n.

- A 3
- B 2
- C 1
- D −1

9. Simplify:
Permudahkan:

$$\frac{h^{\frac{7}{3}} \times h^{\frac{5}{3}}}{h^2}$$

- A h
- B h^2
- C $\sqrt{h}$
- D $\sqrt[3]{h}$

10. Simplify.
Permudahkan.

$$\left(m^2 \times \sqrt[3]{n}\right)^4 \times \left(\frac{m^6}{n^2}\right)^{\frac{5}{3}}$$

- A $\dfrac{m^{20}}{n^2}$
- B $\dfrac{m^{18}}{n^4}$
- C $\dfrac{m^{18}}{n^2}$
- D $\dfrac{m^{21}}{n^2}$

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11. $\dfrac{(m^2n)^3 \times 25m^6n^3}{(5m^5n^2)^3} =$

- A $\dfrac{n}{5m^2}$
- B $\dfrac{m^3}{5}$
- C $\dfrac{1}{5m^3}$
- D $\dfrac{5}{m^3}$

12. Simplify.
Permudahkan.

$$(k^3)^8$$

- A k^{26}
- B k^{24}
- C k^{12}
- D k^2

13. $\left(\dfrac{2}{5}\right)^4 =$

- A $\dfrac{4}{25}$
- B $\dfrac{64}{125}$
- C $\dfrac{16}{625}$
- D $\dfrac{32}{125}$

14. The following gives the value of 64 **except**
Berikut memberi nilai 64 ***kecuali***

- A 2^6
- B 8^2
- C 2^4
- D 4^3

15. $8^3 =$

- A 24
- B 52
- C 240
- D 512

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16. Calculate the value of the following.
Hitung nilai bagi yang berikut.

$$\left(-\frac{3}{4}\right)^4$$

- A $\frac{81}{256}$
- B $\frac{27}{256}$
- C $-\frac{81}{256}$
- D $-\frac{27}{256}$

17. $5^{12} \div 5^9 \div 5^3 =$

- A 5
- B 3
- C 1
- D 0

18. Write the following number in index form using the base given.
Tulis nombor yang berikut dalam bentuk indeks dengan menggunakan asas yang diberikan.

10 000 000 [Base/*Asas* 10]

- A 10^4
- B 10^7
- C 10^{-4}
- D 10^{-7}

19. Simplify:
Permudahkan:

$$a^2 \times a^3 \div a$$

- A a^3
- B a^4
- C a^5
- D a^6

20. Find the value.
Cari nilai.

$$6^8 \div 6^{10} \times 3^5$$

- A $5\frac{3}{4}$
- B $5\frac{1}{2}$
- C $6\frac{3}{4}$
- D $6\frac{1}{2}$

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